

1937

TWECO*

TWECO CONNECTION SUPPORT

HOL-GRIP*

SUPER-MEL*

BALL-POINT

MEC-CON*

SOL-CON*

TWECO'S
25TH
ANNIVERSARY

JACKET GRIPPER

TWECOLUGS

TWECOTONG*

LUG-SET

* U. S. REGISTERED TRADEMARK

FROM THE ELECTRODE TO THE MACHINE
... TWECO ALL THE WAY BETWEEN
CONNECT WITH TWECO

1962



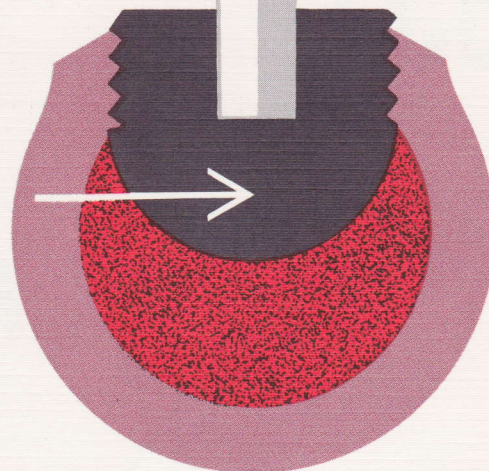
7/32" HEXAGON WRENCH

With *TWECO*, YOU'RE ON THE BALL

Only TWECO GIVES YOU
Ball-Point Cable Connection for
Your Complete Welding Circuit

WHY USE BALL-POINT?

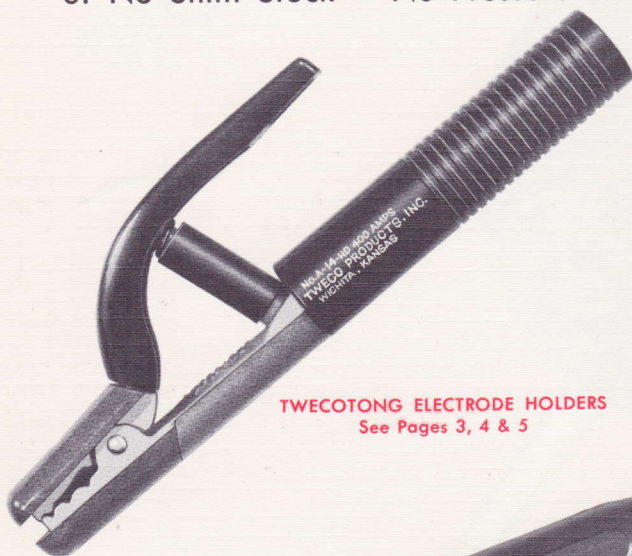
1. Every Cable Strand Under High Pressure and Carrying Current — Eliminates Heating
2. Easy to Install — Less Than Two Minutes
3. No Shim Stock — No Pressure Plate Needed



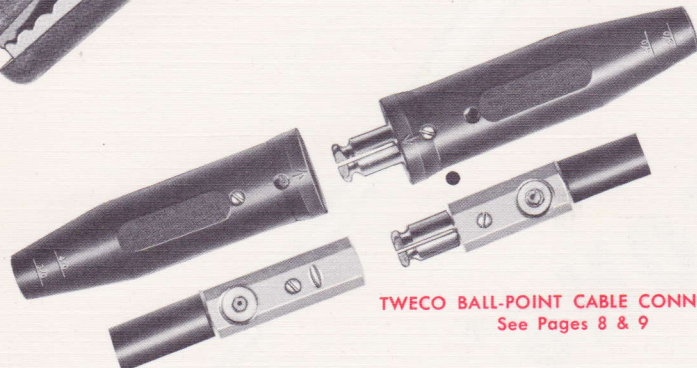
Cut-away of actual connection shows tremendous pressure of the ball-point screw on cable. Strands are pressed into solid mass.

HOT HOLDERS—GROUNDS— CONNECTOR PROBLEM SOLVED

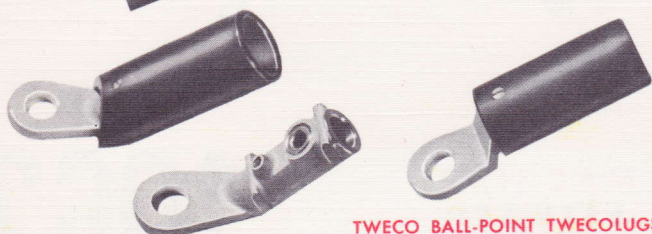
TWECO'S BALL-POINT CABLE CONNECTION, tightened directly onto the cable strands with a strong 7/32" hexagon steel wrench, now attaches welding cables easily, quickly and efficiently — every time. Each cable strand is held under high pressure. Efficient on both Copper and Aluminum Cable. The BALL-POINT is now standard on all TWECOTONG Electrode Holders, TWECO Ground Clamps and Ball-Point Type TWECO Cable Connectors, Cable Splicers and TWECOLUGS. BETTER — QUICKER EASIER — They cost no more.



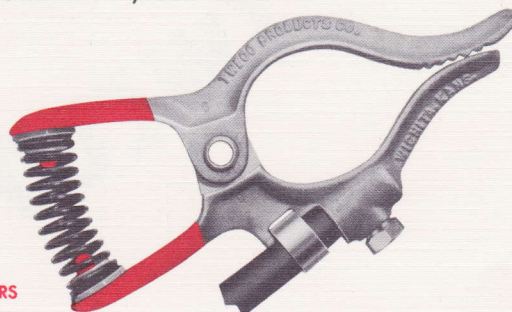
TWECOTONG ELECTRODE HOLDERS
See Pages 3, 4 & 5



TWECO BALL-POINT CABLE CONNECTORS
See Pages 8 & 9



TWECO BALL-POINT TWECOLUGS
See Page 10



TWECO GROUND CLAMPS
See Page 7



TWECO BALL-POINT CABLE SPLICERS
See Page 10

WITH TWECO, YOU'RE ON THE BALL • SAVE TIME • SAVE MONEY

TWECOTONG* ELECTRODE HOLDERS

HEAVY DUTY MODELS NO. A-14-HD & A-38-HD TWECOTONG

SUPER HOLDERS with

- DOUBLE BALL-POINT CABLE CONNECTION
- BOTH JAWS CARRY CURRENT EFFICIENTLY
- POWERFUL BITE ON ELECTRODE
- SAFE "SUPER-MEL" INSULATION

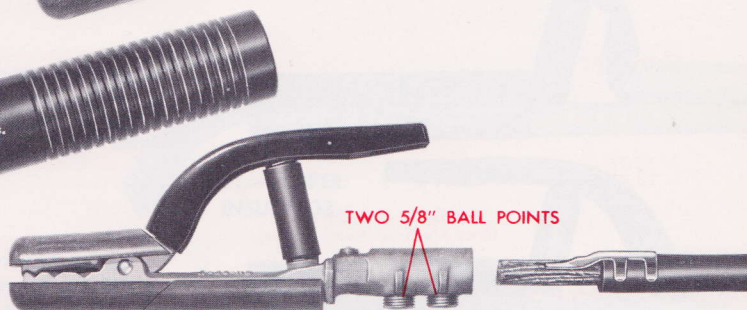
... ALL ADDS UP TO SAFE
AND SUPER COOL OPERATION



NEW NO. A-38-HD TWECOTONG
500 AMPERE — $\frac{3}{8}$ " ROD



NEW NO. A-14-HD TWECOTONG
400 AMPERE — $\frac{1}{4}$ " ROD



Holder Handle removed. Cable ready to install.

The New Model A-14-HD and A-38-HD TWECOTONGS are an especially designed team to "beat the heat" commonly encountered when high amperage is used on large electrodes or on iron powder coated electrodes. In "beating the heat" problem, TWECO has designed into these two models the ultimate in conductivity — both electrical and thermal heat dissipation. Jaw leverage ratio gives a powerful bite on the electrode, yet jaw opening leverage is excellent. A large copper hinge pin permits the upper jaw also to carry current efficiently. The $\frac{5}{8}$ " cable attaching socket easily accommodates 3/0 and 4/0 size welding cable. TWECO No. 10-P Cable Connection Support furnished with each holder. Unexcelled TWECO "Super-Mel" molded laminated glass cloth insulation wards off reflected heat and insulates the jaws like no other material. 56 lb. Insulated, Neoprene Protected, spring gives snappy action to jaws. See Page 4 for Specifications and Prices

THE HEART OF HOT HOLDER PROBLEM IS SOLVED with TWECO'S DOUBLE BALL-POINT CABLE CONNECTION. Not one, BUT TWO $\frac{5}{8}$ " Ball-Point Screws put every cable strand under high pressure and KEEP IT UNDER HIGH PRESSURE. A strong $\frac{7}{32}$ " Hexagon Steel Wrench tightens these two Ball-Point Screws.

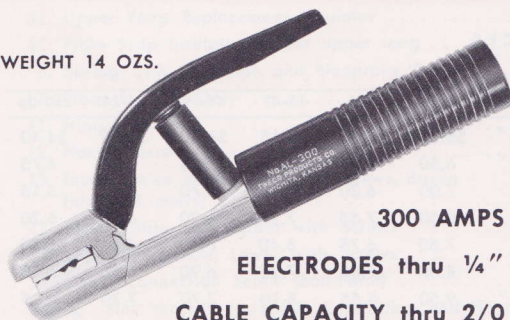
You CAN Do Something About Hot Holders

If you have a Hot Holder Problem, we invite you to try these new models of TWECOTONG. Let us prove to your satisfaction that they can take high amperage and high duty cycle. They can take Iron Powder rods. They hold a rod tight. They work easy. They stand up well and are economically maintained . . . and most important of all THEY RUN COOL enough for a man's hand to be comfortable so he can get the most work done without thinking about his hands.

YOU WON'T GO WRONG WITH TWECOTONG A-14-HD and A-38-HD

NO. AL-300 LIGHTWEIGHT TWECOTONG

WEIGHT 14 OZS.



300 AMPS
ELECTRODES thru $\frac{1}{4}$ "
CABLE CAPACITY thru 2/0

The use of forged aluminum in the upper and lower tongs, reduces the weight of this holder to about half that of a copper holder. This lighter weight reduces weldor fatigue — increases handling ease and means greater productive weldor time and better welding results.

Replaceable Copper Jaws (Cadmium Plated)

Exclusive Ball-Point Cable Connection

Powerful Rod Grip

All Parts Replaceable

See Page 4 for Specifications and Prices

WITH TWECO, YOU'RE ON THE BALL • SAVE TIME • SAVE MONEY

TWECOTONG* ELECTRODE HOLDERS



No. A-532 TWECOTONG
200 Amps — rods thru $\frac{5}{32}$ "
Weight 14 ozs. — Length $8\frac{1}{2}$ "
Cable Cap. thru 2/0



No. A-316 TWECOTONG
250 Amps — rods thru $\frac{3}{16}$ "
Weight 16 ozs. — Length $9\frac{1}{4}$ "
Cable Cap. thru 2/0



No. A-732 TWECOTONG
300 Amps — rods thru $\frac{7}{32}$ "
Weight 18 ozs. — Length 10"
Cable Cap. thru 2/0



FORGED ALUMINUM
(Only Aluminum Model in Line)

No. AL-300 TWECOTONG
300 Amps — rods thru $\frac{1}{4}$ "
Weight 14 ozs. — Length 10"
Cable Cap. thru 2/0



No. A-14 TWECOTONG
350 Amps — rods thru $\frac{1}{4}$ "
Weight 24 ozs. — Length 11"
Cable Cap. thru 4/0



No. A-14-HD TWECOTONG
400 Amps — rods thru $\frac{1}{4}$ "
Weight 27 ozs. — Length 12"
Cable Cap. thru 4/0



No. A-38-HD TWECOTONG
500 Amps — rods thru $\frac{3}{8}$ "
Weight 33 ozs. — Length $13\frac{1}{4}$ "
Cable Cap. thru 4/0

- 98% Copper Alloy — highly conductive, hard and tough.
- Powerful, all-position rod grip.
- Double Ball-Point on Heavy Duty Models.
- Cable Connection tightens without removing handle.
- Tough Super-Mel Insulation.
- Tip Insulators are interchangeable.
- All parts are replaceable.

SPECIFICATIONS AND PRICES

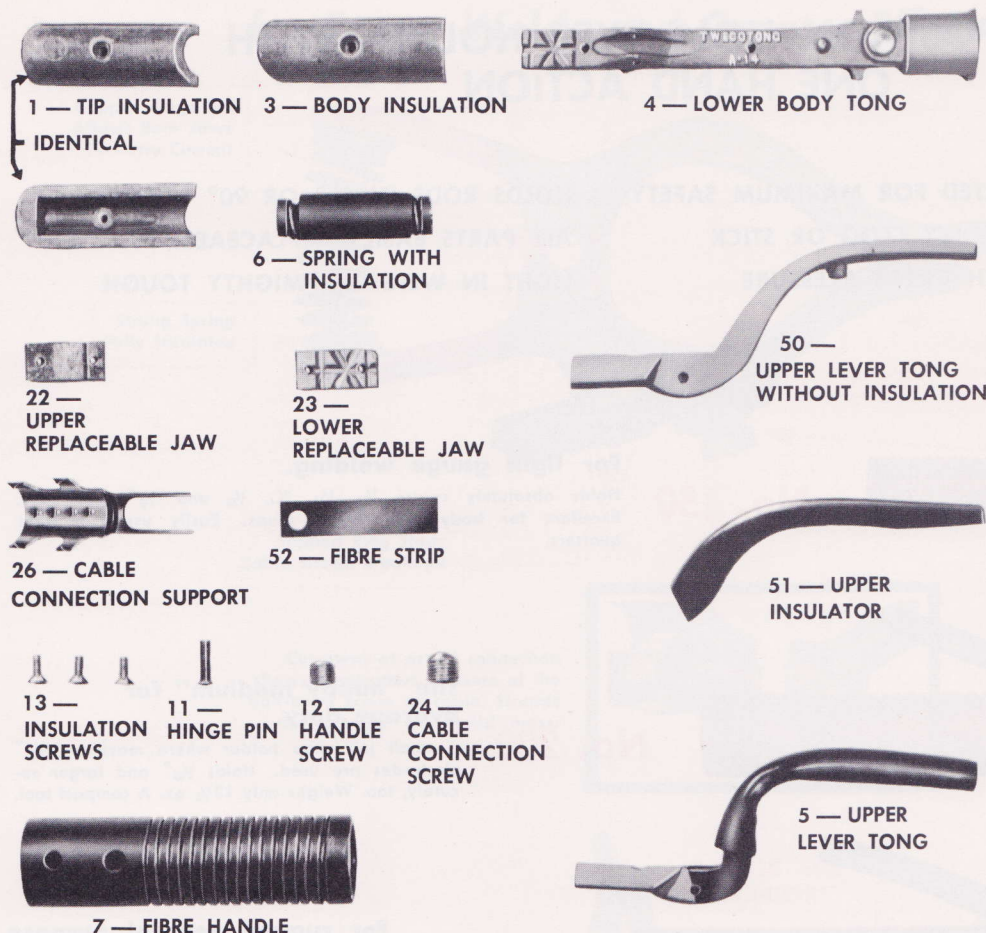
TWECOTONG Model	Amp. Cap.	Alloy	Electrode Capacity	Type — Capacity Cable Connection	Weight	Length	CONSUMER QUANTITY PRICES					
							1-5	6-11	12-47	48-99	100-249	250-Up
A-532	200	98% Copper	thru $\frac{5}{32}$ "	Ball-Point thru 2/0	14 ozs.	$8\frac{1}{2}$ "	\$6.00	\$5.40	\$5.15	\$4.90	\$4.65	\$4.40
A-316	250	98% Copper	thru $\frac{3}{16}$ "	Ball-Point thru 2/0	16 ozs.	$9\frac{1}{2}$ "	6.50	5.85	5.55	5.25	5.00	4.75
A-732	300	98% Copper	thru $\frac{7}{32}$ "	Ball-Point thru 2/0	18 ozs.	10"	7.00	6.30	6.00	5.70	5.40	5.15
AL-300	300	Forged Aluminum	thru $\frac{1}{4}$ "	Ball-Point thru 2/0	14 ozs.	10"	8.50	7.65	7.25	6.90	6.55	6.20
A-14	350	98% Copper	thru $\frac{1}{4}$ "	Ball-Point thru 4/0	24 ozs.	11"	7.50	6.75	6.40	6.10	5.80	5.50
A-14-HD	400	98% Copper	thru $\frac{1}{4}$ "	Double Ball-Point thru 4/0	27 ozs.	12"	8.50	7.65	7.25	6.90	6.55	6.20
A-38-HD	500	98% Copper	thru $\frac{3}{8}$ "	Double Ball-Point thru 4/0	33 ozs.	$13\frac{1}{4}$ "	9.50	8.55	8.10	7.70	7.30	6.95

Group
"A"

*TWECOTONG is a registered trade-mark. (See Page 5 for complete parts and price list)

WITH TWECO, YOU'RE ON THE BALL • SAVE TIME • SAVE MONEY

TWECOTONG PARTS LIST AND PRICES



**ALL
TWECOTONG
PARTS
ARE
REPLACEABLE**

PARTS LISTS AND PRICES — ALL TWECOTONG HOLDERS

TO ORDER PARTS FOR TWECOTONG ELECTRODE HOLDERS, please note in the parts list below numbered parts from 1 through 26. Use this part number in combination with the number of the particular holder for which the part is desired. Thus, Part No. 4-A532 would be the Lower Body Tong for a No. A-532 TWECOTONG Holder.

Please note that small letters appear by the parts price. Where these letters are the same, it indicates the part is identical and interchangeable with other parts carrying the marking.

PARTS LIST AND PRICES — TWECOTONG HOLDERS

Part No.	Part Name	TWECOTONG Model Number						
		A-532	A-316	A-732	AL-300	A-14	A-14-HD	A-38-HD
1.	Tip insulation with screw, for either upper or lower tong (interchangeable part) .....	.55a	.55a	.65b	.60	.65b	.65b	.80c
3.	Body Insulation, with screw .....	.60d	.60d	.60d	.70	.70e	.70e	.85f
4.	Lower Body Tong, with cable connection and handle screws	2.30	2.60	2.80	3.00	2.95	3.45	4.05
5.	Upper Tong, with fibre tube insulation	1.45	1.60	1.70	...	1.70	1.90	1.95
50.	Upper Tong without insulation .....	...	...	...	1.75	1.70	1.90	1.95
51.	Upper Tong Replacement Insulator .....	...	...	...	.60h	.60h	.60h	.65
52.	Fibre Strip Insulation under upper tong .....	...	...	...	.05i	.05i	.05i	.05
6.	Spring with Insulation and Neoprene Cover .....	.40	.45j	.45j	.45r	.45r	.45r	.45r
7.	Fibre Handle Only	1.15	1.15	1.15	1.25	1.25	1.30	1.40
11.	Hinge Pin .....	.04	.04	.04	.05	.06	.10	.12
12.	Handle Screw .....	.10k	.10k	.10k	.10k	.10k	.10k	.10k
13.	Insulation or Replaceable Jaw Screws, dozen (identical parts) .....	.10 _l	.10 _l	.10 _l	.10 _l	.10 _l	.10 _l	.10 _l
22.	Replaceable Jaw, Upper with Screws .....	...	...	...	.60	...	...	...
23.	Replaceable Jaw, Lower with Screws .....	...	...	...	.60	...	...	...
24.	Cable Connection Screw (Ball-Point) .....	.15m	.15m	.15m	.20	.20n	.20n	.20n
25.	7/32" Hex Wrench for Cable Connection and Handle Screws .....	.15p	.15p	.15p	.15p	.15p	.15p	.15p
26.	10-P Cable Connection Support .....	.25s	.25s	.25s	.25s	.25s	.25s	.25s

WITH TWECO, YOU'RE ON THE BALL • SAVE TIME • SAVE MONEY

TWECO "HOL-GRIP"* HOLDERS

TWO POSITION HOLE TYPE HOLDER WITH ONE HAND ACTION

- COMPLETELY INSULATED FOR MAXIMUM SAFETY
- ELECTRODE STUBS WON'T CLOG OR STICK
- GRIPS THE ROD WITH GREAT PRESSURE
- HOLDS RODS IN 45° OR 90° POSITION
- ALL PARTS EASILY REPLACEABLE
- LIGHT IN WEIGHT — MIGHTY TOUGH



No. 150

For light gauge welding.

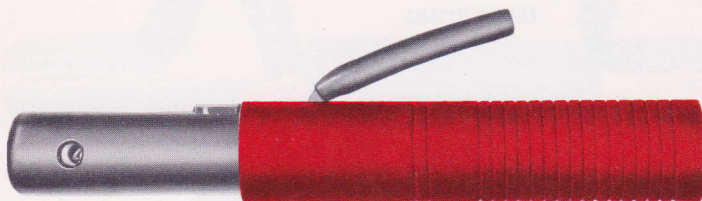
Holds absolutely secure $\frac{1}{32}$, $\frac{1}{16}$, $\frac{5}{64}$, $\frac{3}{32}$ and $\frac{1}{8}$ " electrodes. Excellent for body and fender shops. Easily used in tight quarters.



No. 200

The "happy medium" for average duty.

A small job shop holder where maximum $\frac{3}{16}$ " electrodes are used. Holds $\frac{1}{16}$ " and larger securely, too. Weighs only 13½ oz. A compact tool.



No. 300

For rugged general purpose welding.

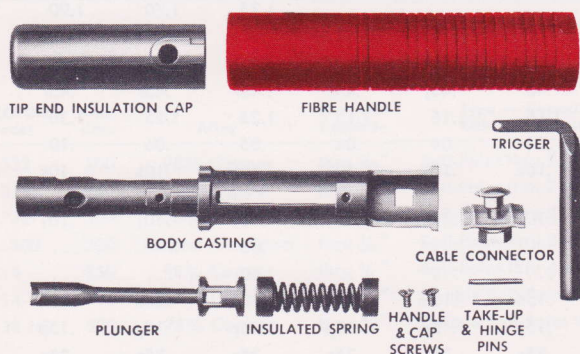
A $\frac{1}{4}$ " maximum diameter holder for 300 ampere and less work. Full insulation provides maximum safety for the operator.

SPECIFICATIONS AND PRICES

Model	Amp. Cap.	Electrode Cap.	Wt. Oz.	Length	CONSUMER QUANTITY PRICES					
					1-5	6-11	12-47	48-99	100-249	250-Up
150	150	1/8 - 1/32"	7½	7	\$6.00	\$5.40	\$5.15	\$4.90	\$4.65	\$4.40
200	200	3/16 - 1/16"	13½	9½	7.00	6.30	6.00	5.70	5.40	5.15
300	300	1/4 - 1/16"	22	10½	8.00	7.20	6.85	6.50	6.20	5.90

Group
"A"

PARTS AND PRICES



	No. 150	No. 200	No. 300
1. Tip End Insulation Cap with Screw.....	.85	\$1.10	\$1.15
2. Holder Main Body Casting.....	2.40	2.80	3.25
3. Plunger .....	.70	.90	1.10
4. Spring with insulators.....	.45	.55	.60
5. Trigger, fibre tube covered, with pin.....	.50	.65	.70
6. Fibre handle with screw.....	.90	1.05	1.10
7. Cable Clamp, bolt and nut.....	.20	.25	.25
8. Extra screws for handle or insulation, same, dozen.....	.10	.10	.15
9. Stainless pin for lever.....	.05	.05	.05
10. Stainless pin for Spring Take-Up.....	.05	.05	.05

*HOL-GRIP is a registered trade-mark.

WITH TWECO, YOU'RE ON THE BALL • SAVE TIME • SAVE MONEY

TWECO* GROUND CLAMPS

for Better Welds and Greater Efficiency!

Copper Hinge Pin
Allows Both Jaws
To Carry Current

Strong Spring
Fully Insulated

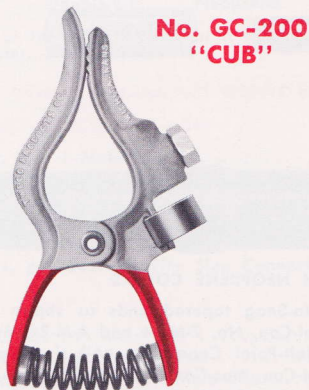
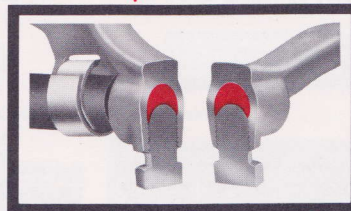
Extended Lip — Shoves
on to work easily

Jaws made of 98%
Copper Alloy

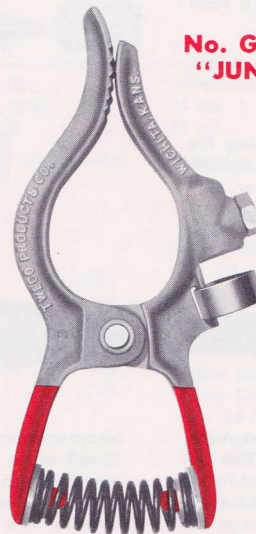
Exclusive Ball-Point
Cable Connection. Cable
attached in two minutes

Support Ring Stops
Cable Strand Breakage

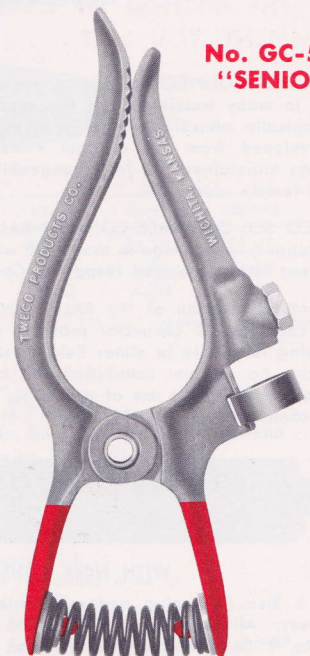
Cut-away of actual connection
shows tremendous pressure of the
ball-point screw on cable. Strands
are pressed into solid mass.



No. GC-200
"CUB"



No. GC-300
"JUNIOR"



No. GC-500
"SENIOR"

SPECIFICATIONS AND PRICES

Group "B"	Clamp Model	Ampere Capacity	Jaw Opening	Type — Capacity Cable Connection	Weight	Length	CONSUMER QUANTITY PRICES					
							1-5	6-11	12-47	48-99	100-249	250-Up
	GC-200 Cub	200	1¼" — Depth 3"	Ball-Point thru 1/0	14 ozs.	6"	\$3.30	\$2.95	\$2.80	\$2.65	\$2.50	\$2.35
	GC-300 Junior	300	1½" — Depth 4"	Ball-Point thru 3/0	24 ozs.	8½"	4.50	4.05	3.85	3.65	3.45	3.30
	GC-500 Senior	500	2" — Depth 5¼"	Ball-Point thru 4/0	37 ozs.	10"	5.90	5.30	5.05	4.80	4.55	4.30

*TWECO is a registered trade-mark.

PARTS AND PRICES

INSULATED SPRING (Sold as a unit only.)



CUB \$0.20
*JUNIOR .25
*SENIOR .25

*Interchangeable Parts

CABLE CONNECTION SCREW



CUB \$0.15
JUNIOR .15
SENIOR .20

CABLE SUPPORT RING



CUB \$0.14
JUNIOR .14
SENIOR .16

WITH TWECO, YOU'RE ON THE BALL • SAVE TIME • SAVE MONEY

IN THE
CIRCUIT

TWECO CABLE CONNECTORS



Male Half



Female Half

- Add on Cable — Take Off Cable
- Use Shorter Cables — Save Wear
- Remove Cable — Prevent Theft
- Splice Cable — Repair Cable
- Save Welding Operator's Time

SOL-CON* ... SOLDER CONNECTOR Attach Cables with Solder

MEC-CON* ... MECHANICAL CONNECTOR Attach Cables Mechanically

BALL-POINT ... MECHANICAL CONNECTOR Attach Cables with 7/32" Hex Wrench

DESIGNED FOR USE WITH EITHER ALUMINUM OR COPPER WELDING CABLE

TWECO WELDING CABLE CONNECTORS are popular because they are simple, easy to use, efficient and economical. The connector will go together or come apart at only one place — where the screw holes line up or marking arrows come together. A quarter turn from this point locks the plug and receptacle so they cannot pull apart. The plug end of the male connector is split for easy springing apart with a screwdriver should it ever need adjusting.

ALL TWECO CABLE CONNECTORS are precision machined from drawn brass rod. Tough red fibre insulates the fibre covered models. A high heat and oil resistant Neoprene covers all other models. The Neoprene Cover is molded around a metal tube to provide rigidity and positive location hole to anchor the cover to the metal conductor. Cover locating screws are deeply recessed to eliminate any chance of arcing.

SELECT THE METHOD OF CABLE ATTACHMENT YOU LIKE ...

TWECO CABLE CONNECTORS during the past 20 years have become standard in many welding shops the country over. As new methods of mechanically attaching the welding cable to the connector have been developed from the original solder type SOL-CON, TWECO has always maintained full interchangeability of the connecting male plug and female receptacle.

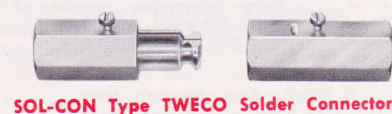
All TWECO SOL-CON, MEC-CON and BALL-POINT Connectors, within size limitations, interchange in the circuit whether they be fibre covered or have our later developed Neoprene Cover.

The recent introduction of the BALL-POINT method of attaching the welding cable to the connector provides greater ease and simplicity of attaching the cable in either field or shop — no heat, solder, vise or wrench. An efficient connection can be made any place in less than 5 minutes with the use of only a 7/32" hexagon wrench furnished with the connector.



WITH FIBRE COVERS

All No. 1 Size (7/16" plug and receptacle) TWECO Connectors have fibre covers. All interchange or mate in the same circuit. This includes No. 1 Sol-Con, No. 1-M Mec-Con and No. 1-MBP Ball-Point. All No. 2 Size (5/8" plug and receptacle) including No. 2 Sol-Con, No. 2-M and 4-M Mec-Con have fibre covers. All interchange or mate in the same circuit.



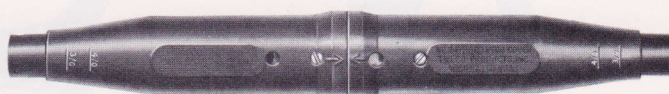
SOL-CON Type TWECO Solder Connector



MEC-CON Type TWECO Mechanical Connector



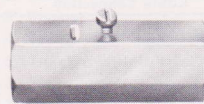
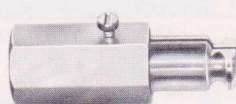
BALL-POINT Type TWECO Mechanical Connector



WITH NEOPRENE COVERS

Neoprene covers with No-Snag tapered ends as shown above are furnished on No. 2-24 Sol-Con, No. 2-M-24 and 4-M-24 Mec-Con and No. 2-MBP and 4-MBP Ball-Point Connectors. All size No. 2 and 4 TWECO Connectors of Sol-Con, Mec-Con or Ball-Point types, both fibre covered and Neoprene covered interchange or mate in the same circuit.

SOL-CON* ... SOLDER CONNECTOR Attach Cables with Solder



Sol-Con Connector — Cover Removed

Connector Model	Type Cable Connection	Type Cover	Cable Capacity	Std. Pkg.	Weight	CONSUMER QUANTITY PRICES					
						1-5	6-11	12-47	48-99	100-249	250-Up
No. 1 Sol-Con	Solder	Fibre	4, 2, or 1	6	5 ozs.	\$2.30	\$2.05	\$1.95	\$1.85	\$1.75	\$1.65
No. 2 Sol-Con	Solder	Fibre	1/0 thru 4/0	6	10 ozs.	3.00	2.70	2.55	2.40	2.30	2.20
No. 2-24 Sol-Con	Solder	Neoprene	1/0 thru 4/0	6	14 ozs.	3.00	2.70	2.55	2.40	2.30	2.20

Group
"C"

NOTE: Male or Female Half Connector is one-half (1/2) price of full connector. In computing for quantity bracket price, two (2) half connectors equal one (1) full connector.

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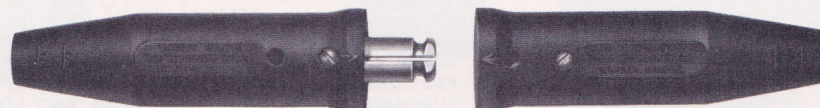
IN THE
CIRCUIT

TWECO CABLE CONNECTORS

MEC-CON* . . . MECHANICAL CONNECTOR Attach Cables Mechanically



Mec-Con Connector — Cover Removed



Group
"C"

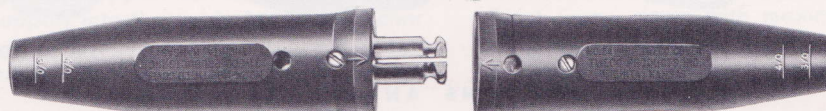
Connector Model	Type Cable Connection	Type Cover	Cable Capacity	Std. Pkg.	Weight	CONSUMER QUANTITY PRICES					
						1-5	6-11	12-47	48-99	100-249	250-Up
No. 1-M Mec-Con	Mechanical	Fibre	4, 2, or 1	6	8 ozs.	\$3.50	\$3.15	\$3.00	\$2.85	\$2.70	\$2.55
No. 2-M Mec-Con	Mechanical	Fibre	1/0 or 2/0	6	15 ozs.	4.70	4.25	4.05	3.85	3.65	3.45
No. 4-M Mec-Con	Mechanical	Fibre	3/0 or 4/0	6	15 ozs.	4.90	4.40	4.20	4.00	3.80	3.60
No. 2-M-24 Mec-Con	Mechanical	Neoprene	1/0 or 2/0	6	18 ozs.	4.70	4.25	4.05	3.85	3.65	3.45
No. 4-M-24 Mec-Con	Mechanical	Neoprene	3/0 or 4/0	6	18 ozs.	4.90	4.40	4.20	4.00	3.80	3.60

NOTE: Male or Female Half Connector is one-half (1/2) price of full connector. In computing for quantity bracket price, two (2) half connectors equal one (1) full connector.

BALL-POINT . . . MECHANICAL CONNECTOR Attach Cables with 7/32" Hex Wrench



Ball-Point Connector — Cover Removed



Group
"C"

Connector Model	Type Cable Connection	Type Cover	Cable Capacity	Std. Pkg.	Weight	CONSUMER QUANTITY PRICES					
						1-5	6-11	12-47	48-99	100-249	250-Up
No. 1-MBP	Single B.P.	Fibre	4, 2, 1, 1/0	6	9 ozs.	\$3.75	\$3.40	\$3.25	\$3.10	\$2.95	\$2.80
No. 2-MBP	Single B.P.	Neoprene	1/0, 2/0, 3/0	6	16 ozs.	4.70	4.25	4.05	3.85	3.65	3.45
No. 4-MBP	Double B.P.	Neoprene	3/0 or 4/0	6	21 ozs.	5.90	5.30	5.05	4.80	4.55	4.30

NOTE: Male or Female Half Connector is one-half (1/2) price of full connector. In computing for quantity bracket price, two (2) half connectors equal one (1) full connector.

REPLACEMENT PARTS — SOL-CON — MEC-CON — BALL-POINT

REPLACEMENT PARTS, SOL-CON

Fibre Cover, No. 1 Male End	\$.040
Fibre Cover, No. 1 Female End	.40
Fibre Cover, No. 2 Male End	.65
Fibre Cover, No. 2 Female End	.65
No. 24 Neoprene Cover, fits No. 2 Sol-Con, Male or Female End	.65
Extra Screws, per doz. (Specify Size Connector)	.10

REPLACEMENT PARTS, MEC-CON

Fibre Cover, No. 1-M Male End	\$.040
Fibre Cover, No. 1-M Female End	.40
Fibre Cover, No. 2-M or 4-M Male End	.65

Fibre Cover, No. 2-M or 4-M Female End	.65
No. 24 Neoprene Cover, fits No. 2M or 4M, Male or Female End	.65
Extra Screws, per doz. (Specify Size Connector)	.10

REPLACEMENT PARTS, BALL-POINT

Fibre Cover, No. 1-MBP Male End	.45
Fibre Cover, No. 1-MBP Female End	.45
No. 24-MBP Neoprene Cover for either male or female end No. 2-MBP or 4-MBP	.65
Ball-Point Cable Connection Screw for No. 1-MBP	.15
Ball-Point Cable Connection Screw for No. 2-MBP or 4-MBP	.20
Extra Screws, same for all Ball-Point Connectors	doz. .10

FOR WHIP
CABLE LEADS

WHIP CABLE CONNECTORS



Attaches Small Whip Cables To Larger Lead Cables

DESIGNED FOR USE WITH EITHER ALUMINUM OR COPPER WELDING CABLE

The Whip Cable Connector is similar in design to the male half of the TWECO Cable Connector. The plug end will fit into the female half of any No. 2 Sol-Con, No. 2-M or 4-M Mec-Con and No. 2-MBP

or 4-MBP Ball-Point. The cable end is reduced in size to accept the smaller cables ordinarily used for whips. Available only in Ball-Point type.

Group
"C"

Whip Cable Connector Model	Type Cable Connection	For Cable Size	Std. Pkg.	Weight	CONSUMER QUANTITY PRICES					
					1-5	6-11	12-47	48-99	100-249	250-Up
No. 2-1-MBP	Ball-Point	4, 2, 1, 1/0	12	5 ozs.	\$2.40	\$2.15	\$2.05	\$1.95	\$1.85	\$1.75

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AT THE
MACHINE

TWECO FEMALE TERMINALS

BOLT TO WELDING MACHINE STUDS

HOW THEY WORK

TWECO Female Terminals are used with the male half of any TWECO Connector, either Sol-Con, Mec-Con or Ball-Point, Fibre Covered or with Neoprene Sleeve. The Female Socket of the Terminal is identical to the Socket of a TWECO Cable Connector and allows complete interchangeability in the circuit.

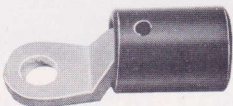
WHAT THEY DO

- QUICKLY CONNECT OR DETACH WELDING CABLES RIGHT AT THE MACHINE
- SIMPLE CABLE DISCONNECT FOR "JUMP-IN" OF ADDITIONAL CABLE
- PROVIDES EASY CABLE SWITCH FOR REVERSING POLARITY
- ELIMINATES MACHINE STUD BURN-OUT AND STRIPPED STUD THREADS
- FAST CABLE REMOVAL FOR MAINTENANCE, SHIPPING, SAFETY FROM THEFT

No. 1-AF and 2-AF
45° Angle Terminal



No. 1-OF and 2-OF
180° Offset Terminal



FEMALE TERMINAL CONNECTOR ONLY

	Size of Stud Hole	Weight	Std. Pkg.	CONSUMER QUANTITY PRICES					
				1-5	6-11	12-47	48-99	100-249	250-Up
No. 1-AF Female Only 45° Angle	17/32"	5 1/2 ozs.	24	\$1.95	\$1.75	\$1.65	\$1.55	\$1.45	\$1.40
No. 1-OF Female Only 180° Offset	17/32"	5 1/2 ozs.	24	1.95	1.75	1.65	1.55	1.45	1.40
No. 2-AF Female Only 45° Angle	17/32"	7 1/2 ozs.	24	2.40	2.15	2.05	1.95	1.85	1.75
No. 2-OF Female Only 180° Offset	17/32"	7 1/2 ozs.	24	2.40	2.15	2.05	1.95	1.85	1.75

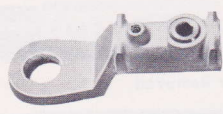
Group
"C"

For price of Male Plugs only refer to half connector price shown under "Sol-Con" "Mec-Con" or "Ball-Point" (see Pages 8 and 9) cable connectors. Number sizes of Connectors and Terminals interchange in the welding cable circuit.

TWECOLUGS — BALL POINT TYPE



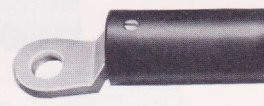
No. 10-45 and 40-45
45° Angle Twecolug



No. 10-180 and 40-180
180° Offset Twecolug



No. 10-45C and 40-45C 45°
Angle Twecolug with Fibre Cover



No. 10-180C and 40-180C 180°
Offset Twecolug with Fibre Cover

SPECIFICATIONS AND PRICES

SPECIFICATIONS AND PRICES							CONSUMER QUANTITY PRICES					
Number	Angle	Type Cable Connection	Cable Capacity	Size of Stud Hole	Std. Pkg.	Weight	1-5	6-11	12-47	48-99	100-249	250-Up
Plain — Less Fibre Cover												
10-45	45°	Ball-Point	thru 1/0	17/32"	12	4½ oz.	\$1.80	\$1.60	\$1.50	\$1.40	\$1.35	\$1.30
10-180	180°	Ball-Point	thru 1/0	17/32"	12	4½ oz.	1.80	1.60	1.50	1.40	1.35	1.30
40-45	45°	Ball-Point	thru 4/0	17/32"	12	7 oz.	2.10	1.90	1.80	1.70	1.60	1.50
40-180	180°	Ball-Point	thru 4/0	17/32"	12	6½ oz.	2.10	1.90	1.80	1.70	1.60	1.50
With Fibre Cover												
10-45C	45°	Ball-Point	thru 1/0	17/32"	12	6 oz.	2.40	2.15	2.05	1.95	1.85	1.75
10-180C	180°	Ball-Point	thru 1/0	17/32"	12	6 oz.	2.40	2.15	2.05	1.95	1.85	1.75
40-45C	45°	Ball-Point	thru 4/0	17/32"	6	9 oz.	2.80	2.50	2.35	2.25	2.15	2.05
40-180C	180°	Ball-Point	thru 4/0	17/32"	6	8½ oz.	2.80	2.50	2.35	2.25	2.15	2.05

Group
"D"

1/2" BALL-POINT SCREW FOR ALL NO. 10 SIZE, \$0.15
FIBRE COVER FOR ANY NO. 10 SIZE, \$0.65

PARTS AND PRICES
FIBRE COVER SCREWS, DOZ. \$0.10

3/8" BALL-POINT SCREW FOR ALL NO. 40 SIZE, \$0.20
FIBRE COVER FOR ANY NO. 40 SIZE, \$0.70

TWECO BALL POINT CABLE SPLICERS



- REPAIR BROKEN CABLES
- USE OVER AND OVER

- SPLICE SHORT CABLES
- HEAVY WALL FIBRE SLEEVES

- SPLICE ON WHIP CABLE LEADS
- INSTALL WITH 7/32" HEX WRENCH

SPECIFICATIONS AND PRICES

Number	Cable Cap.	Type Cable Connection	Length	Std. Pkg.	Weight	CONSUMER QUANTITY PRICES					
						1-5	6-11	12-47	48-99	100-249	250-Up
BP-410 With Cover	4, 2, 1, 1/0	Ball-Point	4 1/4"	12	4 ozs.	\$2.25	\$2.05	\$1.95	\$1.85	\$1.75	\$1.65
BP-1030 With Cover	1/0, 2/0, 3/0	Ball-Point	4 1/2"	12	7 ozs.	2.65	2.40	2.30	2.20	2.10	2.00
BP-2040-HD With Cover	2/0, 3/0, 4/0	Double Ball-Point	6 1/2"	6	12 ozs.	4.25	3.85	3.65	3.45	3.30	3.15
BP-410 Less Cover	4, 2, 1, 1/0	Ball-Point	2 1/4"	12	3 ozs.	1.85	1.65	1.55	1.45	1.40	1.35
BP-1030 Less Cover	1/0, 2/0, 3/0	Ball-Point	2 1/2"	12	5 ozs.	2.05	1.85	1.75	1.65	1.55	1.45
BP-2040-HD Less Cover	2/0, 3/0, 4/0	Double Ball-Point	4 1/2"	6	8 ozs.	3.45	3.10	2.95	2.80	2.65	2.50

Group
"E"

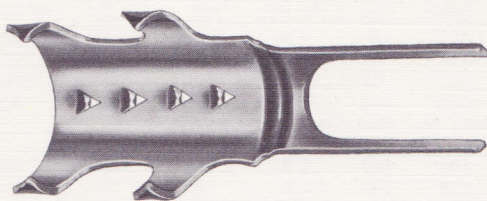
PARTS AND PRICES

SPLICER NO.	FIBRE COVERS	CABLE CONNECTION SCREW	EXTRA INSUL. SCREWS
BP-410	\$0.45 ea.	\$0.15 ea.	\$0.10 per doz.
BP-1030	.65 ea.	.20 ea.	.10 per doz.
BP-2040-HD	.85 ea.	.20 ea.	.10 per doz.

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TWECO CABLE CONNECTION SUPPORTS

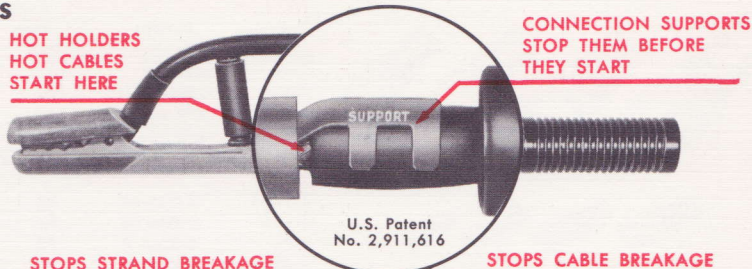
Stop Welding Cables from Starting to Fray and Break — And You Stop Cable and Equipment Heating Before it Starts



No. 10-P for All TWECO Holders

Strand breakage behind the electrode holder connection has always been the cause for hot holders. The twisting of the holder as a man welds, causes these fine strands of wire to work harden and break.

HOT HOLDERS
HOT CABLES
START HERE

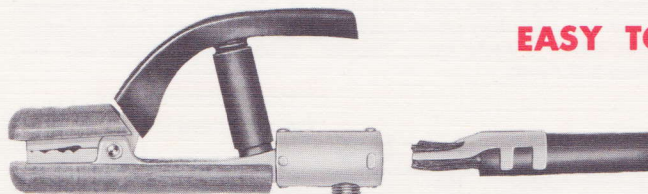


CONNECTION SUPPORTS
STOP THEM BEFORE
THEY START

STOPS STRAND BREAKAGE

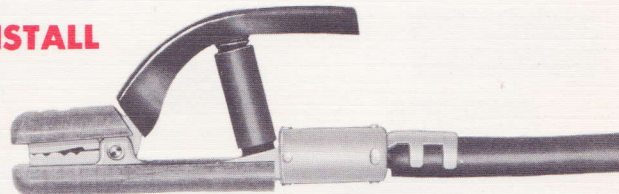
STOPS CABLE BREAKAGE

TWECO Cable Connection Supports stop this breakage, anchoring first in the holder socket and then bridging across the bare strands and securely gripping the cable jacket. Strand breakage is permanently stopped.



Remove 1 1/8 inch of cable jacket as shown in above photo. Press Connection Support on cable. Clinch the small teeth of the support into the cable jacket to anchor it tightly.

EASY TO INSTALL



The cable with the support attached is then inserted into the connection socket of the holder. Tighten the Ball-Point Screw down with maximum hand pressure on 7/32" wrench.

SPECIFICATIONS AND PRICES

Group	Connection Support No.	Cable Capacity	Type Holder Support Fits	Std. Pkg.	CONSUMER QUANTITY PRICES		
					Less than 100	100-499	500 Up
"G"	No. 10-P Prong Type	1 thru 4/0	All TWECO Holders	50	\$0.25	\$0.23	\$0.21

TWECO JACKET GRIPPERS

PREVENT JACKET
SLIPPAGE HERE

WITH TWECO
JACKET-GRIPPERS



Cut-Away Showing Gripping
Action of Jacket-Gripper

FOUR SIZES
COVER
COMPLETE
CABLE RANGE



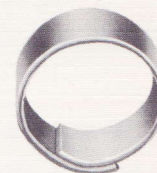
No. 48



No. 58



No. 68



No. 78

USE JACKET-GRIPPERS TO PREVENT JACKET
SLIPPING WHEREVER CABLE IS ATTACHED TO

- Ground Clamps
- Solder Lugs
- On Cable Leads
- Cable Connectors
- Mechanical Lugs

HOW THEY WORK

"Jacket-Grippers" provide a compressed rubber cushion binding to the fine stranding of a welding cable. The tightly bound strands cannot move or work at that point, eliminating friction between the strands. Jacket-Grippers are rolled from round edge flat wire, then zinc plated.

EASY TO INSTALL

TWECO Jacket-Grippers are installed using the "Lug-Set" Block and Indentation Punch (see page 12). Merely put Block in vise, put gripper on cable, form tight on cable with hammer and then "set" using punch and hammer.

SPECIFICATIONS AND PRICES

Group	Jacket Gripper No.	Welding Cable Size	I. D. of Gripper	Std. Pkg.	Weight per 100	CONSUMER QUANTITY PRICES		
						Less than 100	100-499	500 Up
"G"	No. 48	4 and 2	1/2"	100	25 ozs.	\$0.10	\$0.09	\$0.08
	No. 58	1 and 1/0	5/8"	100	32 ozs.	.12	.11	.09
	No. 68	1/0 and 2/0	3/4"	50	36 ozs.	.14	.13	.12
	No. 78	3/0 and 4/0	7/8"	50	42 ozs.	.16	.15	.14

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TWECOLUGS—SOLDER TYPE

- Large Stud Holes
- Made from Pure Copper Tube
- Ample Wingnut Clearance
- Cable Size Numbered

WELDING CABLE TWECOLUGS

Twecolug No.	Welding Cable Size	U. L. Amp. Rating	Size of Stud Hole	I. D. Solder Socket	Std. Pkg.	Weight Per 100	CONSUMER QUANTITY PRICES		
							Less Than 100	100-499	500-Up
T-62	6 thru 2	150	17/32"	.461"	50	5 lb.	\$0.22	\$0.21	\$0.20
T-120	1 thru 2/0	225	17/32"	.559"	50	8 lb.	.36	.34	.32
T-3040	3/0 and 4/0	250	17/32"	.660"	25	12 lb.	.60	.58	.56
T-40HD	4/0 Hvy. Duty	325	21/32"	.776"	25	23 lb.	.88	.85	.82

NOTE: T-120 and T-3040 also available with 21/32" Stud Hole.

POWER CABLE TWECOLUGS

Twecolug No.	Welding Cable Size	U. L. Amp. Rating	Size of Stud Hole	I. D. Solder Socket	Std. Pkg.	Weight Per 100	CONSUMER QUANTITY PRICES		
							Less Than 100	100-499	500-Up
T-1214	12 thru 14	35	13/64"	.186"	200	.6 lb.	.07	.06	.05
T-810	8 thru 10	50	13/64"	.238"	200	1.2 lb.	.08	.07	.06
T-68	6 thru 8	70	21/64"	.289"	125	1.7 lb.	.09	.08	.07
T-46	4 thru 6	90	21/64"	.347"	100	2.7 lb.	.12	.11	.10

Group "F"

TWECO "LUG-SET" SPLICERS

MADE FROM PURE COPPER TUBE

TWECO "Lug-Set" Splicers make it easy and inexpensive to splice broken or worn places in welding cables. Reel ends and short pieces can be quickly spliced into usable lengths. Field repair of broken cables is made easy. "Lug-Set" Splicers are installed with the TWECO "Lug-Set" Block and Punch.

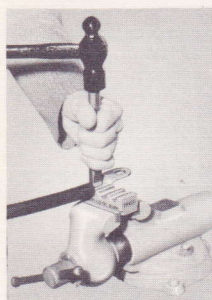
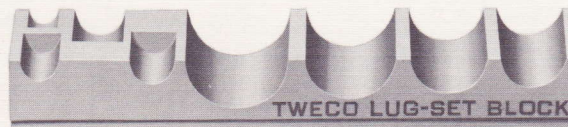
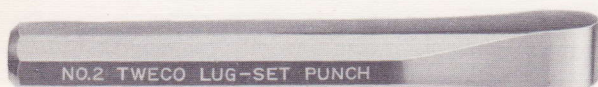
CONSUMER QUANTITY PRICE

Splicer No.	Welding Cable Size	I. D. of Tube	Std. Pkg.	Weight Per 100	Copper Tube Only Each			Rubber Sleeves for Splicers Only
					Less Than 100	100-499	500-Up	
TS-62	6 thru 2	.461"	100	4 lbs.	\$0.22	\$0.21	\$0.20	\$0.08
TS-120	1 thru 2/0	.559"	50	7 lbs.	.36	.34	.32	.10
TS-3040	3/0 and 4/0	.660"	25	12 lbs.	.60	.58	.56	.12
TS-40HD	4/0 Hvy. Duty	.776"	24	17 1/2 lbs.	.88	.85	.82	.15

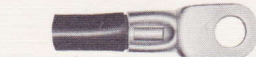
Quantity bracket prices apply only when purchased in standard packages. "Lug-Set" Splicers and TWECOLUGS may be grouped for quantity.

Group "F"

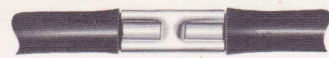
TWECO "LUG-SET" BLOCK and PUNCH



Top View Ready to Insert



Bottom View Attached



Bottom View of Splicer Attached

TWECO "Lug-Set" consists of an eight-saddle back-up block and a special round-end punch for mechanically attaching Copper TWECOLUGS and "Lug-Set" Splicers. The punch impacts the lug barrel into a "U" shape as shown in the illustrations. Maximum conductivity is assured through the impacted high pressure contact of the lug or splicer with the cable strands. Installed in a fraction of the time required to solder a lug. The saddles of the block fit all sizes of TWECOLUGS and "Lug-Set" Splicers. TWECO "Lug-Set" also attaches TWECO Jacket-Grippers shown on page 11.

		Weight	Consumer Price
TWECO No. 12-BP	"Lug-Set" Block & Punch Set	1 1/2 lbs.	\$6.00
TWECO No. 1-B	"Lug-Set" Block only, each	1 lb.	4.50
TWECO No. 2-P	"Lug-Set" Punch only, each	1/2 lb.	1.50

GROUPING FOR QUANTITY PRICES

It will be noted all through the TWECOLOG in the margin of the pages that each type of product is given a Group Letter. Different sizes and types that are listed under the same Group Letter may be combined for the 6-11, 12-47, 48-99, 100-249 and 250-Up quantity bracket price. Intergrouping is not permissible, for example, Electrode Holders in Group "A" cannot be grouped with Cable Connectors in Group "C."

All replacement parts have one net price.

TWECO-LITE ALUMINUM WELDING CABLE

For those who want the advantage of lighter weight and greater flexibility we recommend the use of TWECO-LITE Aluminum Welding Cable. It comes in sizes No. 1/0 through 4/0 in Rubber and Neoprene Grades. In 500' and 1000' Reels, 250' Coils or 50' and 100' Packaged Lengths. REQUEST the Special Bulletin on TWECO-LITE which gives complete specifications and EASY methods of attaching.

Items not shown in this TWECOLOG include Tapered Screw Type TWECOLUGS, No. T-908 Cable Cutting and Stripping Hand Tool, Replacement Tapered Machine Plugs, Converting Machine Receptacles to TWECO Male Connector Plugs, TWECO Carbon Electrode Holders, TWECO "Screw-Protect," Welding Cable Strand Deoxidizer. Request Bulletin No. TS-1962 covering these products.

DISTRIBUTED BY

Tweco

MANUFACTURERS: ARC WELDING ELECTRODE HOLDERS, GROUND CLAMPS, CABLE CONNECTORS, TWECO-LITE ALUMINUM WELDING CABLE

PRODUCTS, INC.

BOSTON AT MOSLEY • WICHITA, KANSAS, U.S.A.

Phone AMherst 5-1684